



Digital Signage Player DJM-A640

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1 Overview

DJM-A64 is base on A64/R18 chipset for digital signage that use 1G/2G DDR+8G/16G eMMC. Support both LVDS and HDMI output.

DJM-A64 uses 64-bit ARM Cortex-A53 architecture, quad-core. Basic Frequency is up to 1.5 GHz

The advantages:

DJM-A64 support H.265 decode technology which offer HDMI 4K resolution output. Operation system is using Android 6.0, kernel is Linux 3.1 version that is much stable and good for multi-application usage.

2 Specification

Hardware Configuration

CPU	Allwinner A64/R18 ARM Cortex-53 1.5GHz Quad Core
GPU	Mali400MP2
DRAM	DDR3 1G/2G Option (Default 1GB)
Flash memory	EMMC 8GB/16G/32G Option (Default 8GB)
Video Output	LVDS×1, LVDS 30 Pin 2.0mm, Double Row, direct for 50/60Hz LCD。 Support Max Resolution 1920×1080, Support 7"-100" screen
Backlight	Support 3.3V/5V/12V Select
Internet	10/100/1G RJ45 Ethernet。
	Support Bluetooth & wifi module , Support Wi-Fi 802.11b/g/n protocol
Rotation	Support 0 ,90, 180, 270 degree
RTC	Time synchronization over network and time saving when power failure
Interface	Support USB camera
	Support HDMI 1.4 Output, Max output 4K (Single Output)
	6 x USB HOST、 2x Rear USB、 4x internal USB
	2x TTL Output, 1x RS232 , Support Extend serial module
	TF Card, Max 64GB

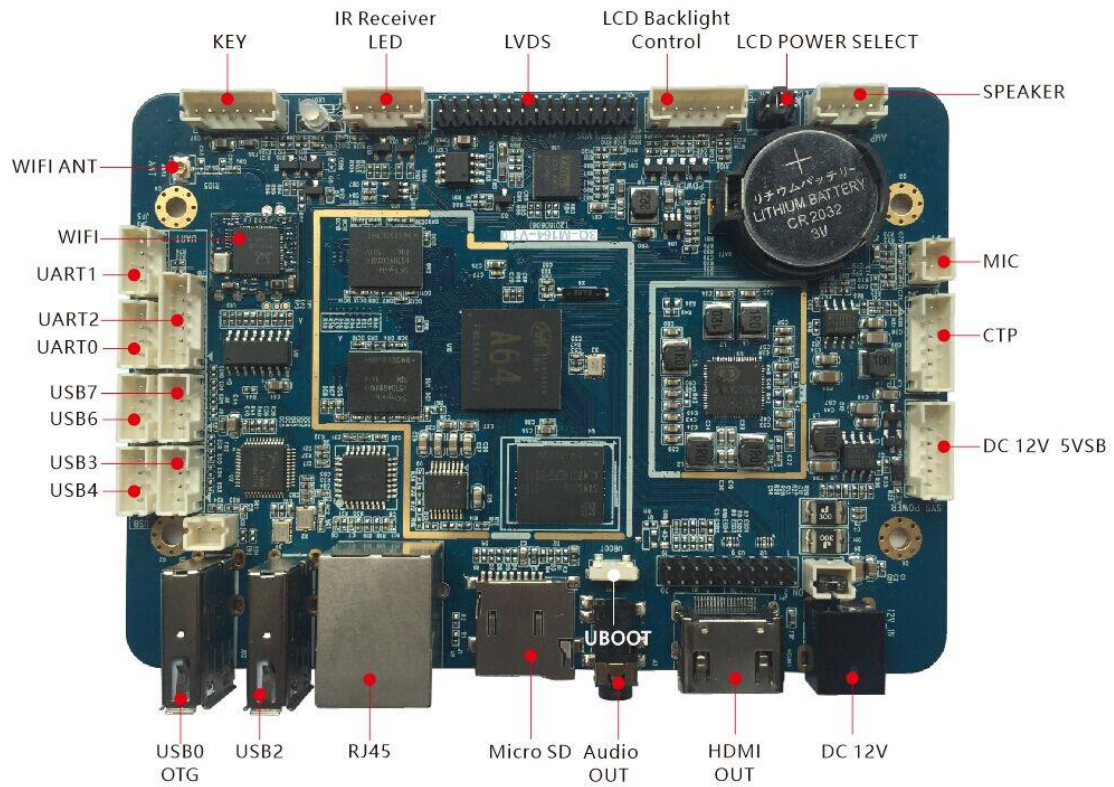
	Audio Output, 10W Amplifier
Audio input	Support MIC in
Touch screen	Support IR、 Resistive Touch screen、 Capacitive Touch screen
Power supply	DC in: DC12V & DC12V 5VSTB(on/off power)

Software Configuration

Operation system	Google Android6.0
Language	Multi-Lingual
Media Formats	Support Video playback up to 1080P @60fps、 4K@30fps Support Multi-Format video playback,including Mpeg1、 Mpeg2、 Mpeg4 SP/ASP GMC、 H.263 including sorenson spark、 H.264 BP/MP/HP、 VP8、 WMV9/VC1、 JPEG/MJPEG、 etc HEVC/H.265 4K @30fps
Audio Formats	Support 2,OGG,AAC,M4A,MA4,FLAC,APE,3GP,WAV
Image	Support BMP、 PNG、 GIF . Max 4096*4096 resolution
File	EPUB, WORD, EXCEL, POWERPOINT, PDF, TXT
System Management	Un-limits of Root authority. Help user to make their customized software.
	Auto power ON and OFF

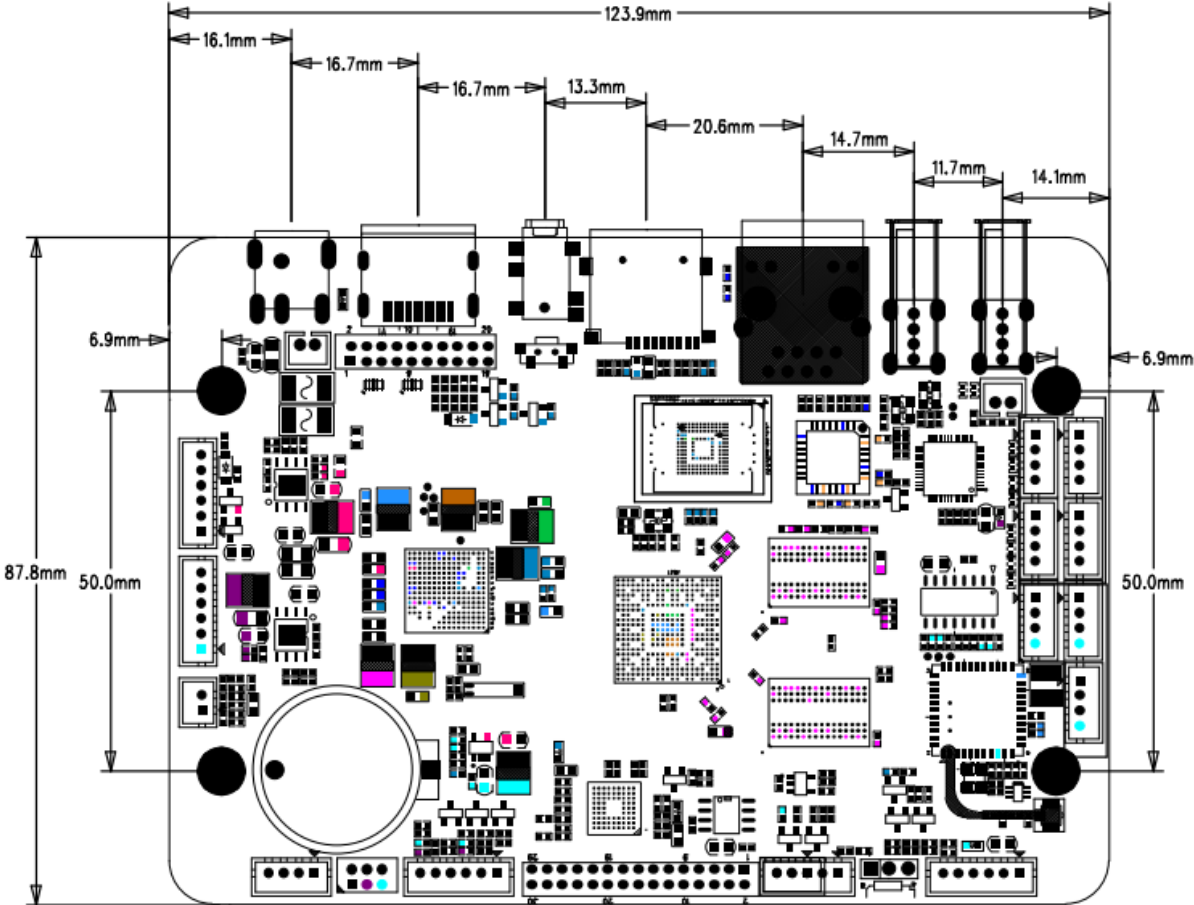
3 Appearance & Dimension

3.1 Front View



3.2 Dimension

Length: 124mm, Width: 88mm, Front Height: 15mm



4 Interfaces

4.1 Interface Layout

◆ JP2(6PIN/2.0) Extend Power Input

Pin No.	Pin Name	Type	Description
1	12V	Power Input	+12V Power Input
2	12V	Power Input	+12V Power Input
3	GND	Ground	Ground
4	GND	Ground	Ground
5	5VSB	Input	STB Power +5V
6	STB	Output	STB Power control

◆ JP4(6PIN/2.0) CTP interface

Pin Name	Type	Description
3.3V	Output	3.3V Output
SCK	Output	I2C Clock
SDA	Input /Output	I2C data
INT	Input	Interrupt
RST	Output	Reset
GND	Ground	Ground

◆ JP6(2PIN/2.0) MIC in

Pin No.	Pin Name	Type	Description
1	MIC1P	Input	Mic in +
2	MIC1N	Input	Mic in -

◆ JP7(4PIN/2.0) Audio Output

Pin No.	Pin Name	Type	Description
1	OUTP-R+	Output	+ Audio Signal of Right Speaker
2	OUTN-R-	Output	- Audio Signal of Right Speaker

1	OUTN-L-	Output	- Audio Signal of Left Speaker
2	OUTP-L+	Output	+ Audio Signal of Left Speaker

◆ **JP13(2X3PIN/2.0) Backlight Power**

Pin No.	Pin Name	Type	Description
1	LCD12V	Output	Power Output, +12V
3	LCD5V	Output	Power Output, +5V
5	LCD3.3V	Output	Power Output, +3.3V
2	LCD-POWER	Input	According to 1, 3, 5, Select LVDS power
4			
6			

◆ **JP8(6PIN/2.0) Backlight control**

Pin No.	Pin Name	Type	Description
1	12V	Output	Backlight Power output, +12V
2			
3	BL_EN	Output	Backlight Enable
4	BL_ADJ	Output	Backlight control
5	GND	Ground	Ground
6			

◆ **JP9(2X15PIN/2.0) LVDS interface**

Pin No.	Pin Name	Type	Description
1	VCC_Panel	Output	Power Output, According to screen can select 3.3V/5V/12V (Use JP6 Jumper select)
2			
3			
4	GND	Ground	Ground
5			
6			
7	RX00-	Output	Pixel0 Negative Data (Odd)
8	RX00+	Output	Pixel0 Positive Data (Odd)
9	RX01-	Output	Pixel1 Negative Data (Odd)
10	RX01+	Output	Pixel1 Positive Data (Odd)
11	RX02-	Output	Pixel2 Negative Data (Odd)
12	RX02+	Output	Pixel2 Positive Data (Odd)
13	GND	Ground	Ground
14			

15	RXOC-	Output	Negative Sampling Clock (Odd)
16	RXOC+	Output	Positive Sampling Clock (Odd)
17	RXO3-	Output	Pixel3 Negative Data (Odd)
18	RXO3+	Output	Pixel3 Positive Data (Odd)
19	RXE0-	Output	Pixel0 Negative Data (Even)
20	RXE0+	Output	Pixel0 Positive Data (Even)
21	RXE1-	Output	Pixel1 Negative Data (Even)
21	RXE1+	Output	Pixel1 Positive Data (Even)
23	RXE2-	Output	Pixel2 Negative Data (Even)
24	RXE2+	Output	Pixel2 Positive Data(Even)
25	GND	Ground	Ground
26			
27	RXEC-	Output	Negative Sampling Clock (Even)
28	RXEC+	Output	Positive Sampling Clock (Even)
29	RXE3-	Output	Pixel3 Negative Data (Even)
30	RXE3+	Output	Pixel3 Positive Data (Even)

◆ **JP11(5PIN/2.0) Remote、LED**

Pin No.	Pin Name	Type	Description
1	LED_B	Blue LED	Work LED (LED_R Common Cathode)
2	LED_R	Red LED	STB LED
3	VCC_MCU	MCU PWR	3.3V Output
4	GND	Ground	Ground
5	IR	Input	Remote receive

◆ **LED1(3PIN) LED**

Pin No.	Pin Name	Type	Description
1	LED_B	Blue LED	Work LED (LED_R Common Cathode)
2	GND	Ground	Ground
3	LED_R	Red LED	STB LED

◆ **JP12(6PIN/2.0) Button interface**

Pin No.	Pin Name	Type	Description
1	3.3V	Output	3.3V Output
2	PWR-ON	Output	Power Button

3	RESET	Output	Reset
4	BOOT	Input	Update
5	KEY	Output	Buttom
6	GND	Ground	Ground

◆ **JP5 (4PIN/2.0) UART1**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	RX1	Input	UART Data receive
3	TX1	Output	UART Data transmit
4	3.3V	3.3V Output	3.3V Output

◆ **JP3 (4PIN/2.0) UART0**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	RX1	Input	UART Data receive
3	TX1	Output	UART Data transmit
4	3.3V	3.3V Output	3.3V Output

◆ **J10(6PIN/2.0) UART2 (RS232)**

Pin No.	Pin Name	Type	Description
1	UART2_RTS	Output	UART RTS
2	UART2_CTS	Output	UART CTS
3	GND	Ground	Ground
4	RX2	Input	UART Data receive
5	TX2	Output	UART Data transmit
6	3.3V	3.3V Output	3.3V Output

◆ **J6 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J7 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J9 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **J8 (4PIN/2.0) USB Extend IO**

Pin No.	Pin Name	Type	Description
1	GND	Ground	Ground
2	DP3	Input \ Output	D+ differential signal
3	DM3	Input \ Output	D- differential signal
4	5V Power	Output	Power Output +5V

◆ **JP1 (2X10PIN/2.0) HDMI Interface**

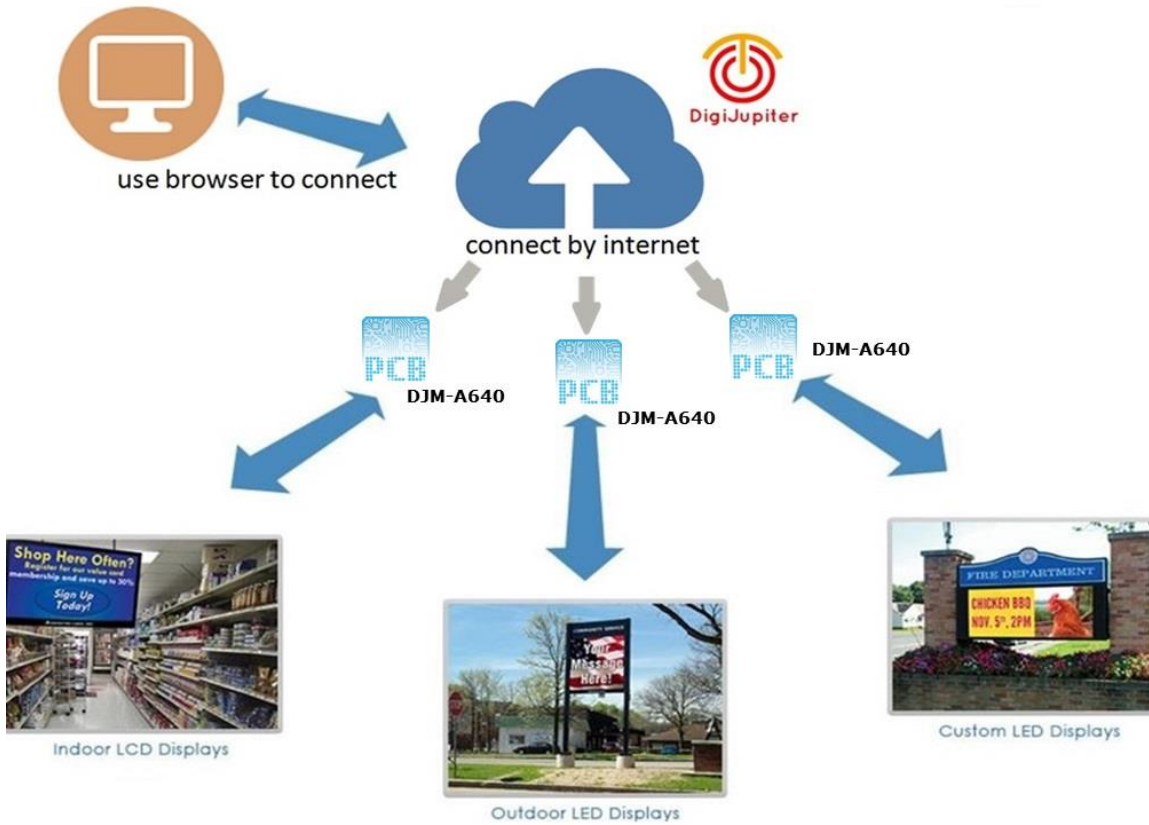
Pin No.	Pin Name	Type	Description
1	HTX2P-S	Signal	HDM Signal
2	GND	Ground	HDMI Ground
3	HTX2N-S	Signal	HDMI Signal
4	HTX1P-S	Signal	HDMI Signal
5	GND	Ground	HDMI Ground
6	HTX1N-S	Signal	HDMI Signal
7	HTX0P-S	Signal	HDMI Signal
8	GND	Ground	HDMI Ground
9	HTX0N-S	Signal	HDMI Signal
10	HTXCP-S	Signal	HDMI Signal
11	GND	Ground	HDMI Ground
12	HTXCP-S	Signal	HDMI Signal

13	HDMI-CEC	Signal	HDMI CEC
14	NC		NO Connect
15	HSC_L	Signal	HDMI I2C Clock
16	HSDA	Signal	HDMI I2C data
17	GND	Ground	HDMI Ground
18	HDMI-5V	Power	HDMI Power5V
19	HDMI-HPD	Signal	HDMI hot plug
20	GND	Ground	HDMI Ground

- ◆ JD2 USB_OTG
- ◆ JD1 USB-HOST
- ◆ U1 Ethernet Connector
- ◆ J1 TF Card
- ◆ J3 Audio Jack
- ◆ HCON1 HDMI TYPE-A
- ◆ J2 12V DC Jack

5

Usage Contexts (Use Digi-Jupiter cloud solution to update terminala players)



DigiJupiter Interactive Touch Software

